

11.3: Data and Analysis

Data Collection

(Acquiring competencies) Following your detailed protocol based on the videos, perform all the experiments. Record your observations and take pictures of your key steps in the process. Your observations and images need to be incorporated in your data section and this section should be as detailed as possible as you will use this information to complete your discussion.

Data Processing

1. (Manipulation) Calculate the percent yield of the reaction. Show your calculations with the appropriate units.
2. (Manipulation) Collect the percent yield values from your group members and calculate the average percent yield for your group.
3. (Assumptions and Analysis) Fill in the following table using the observations and data from your experiments.

Assumptions made	Testing the assumption	If assumptions are wrong ...
Only CO ₂ and H ₂ O are released in the reaction.	Funnel the gases in indicator solution.	
The sodium carbonate does not change back to sodium bicarbonate even if there is water and CO ₂ available.		

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